Statement of Basis of the Federal Operating Permit

Ticona Polymers, Inc.

Site/Area Name: APAP / IBU
Physical location: From Bishop, take Hwy 77 S to FM 4, turn right to site
Nearest City: Bishop
County: Nueces

Permit Number: O2016 Project Type: Renewal

Standard Industrial Classification (SIC) Code: 2869 SIC Name: Industrial Organic Chemicals

This Statement of Basis sets forth the legal and factual basis for the draft permit conditions in accordance with 30 TAC §122.201(a)(4). Per 30 TAC §§ 122.241 and 243, the permit holder has submitted an application under § 122.134 for permit renewal. This document may include the following information:

A description of the facility/area process description;

A basis for applying permit shields;

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements;

The rationale for periodic monitoring methods selected;

The rationale for compliance assurance methods selected;

A compliance status; and

A list of available unit attribute forms.

Prepared on: August 20, 2015

Operating Permit Basis of Determination

Permit Area Process Description

The IBU Unit manufactures Ibuprofen. The APAP unit manufactures 4-hydroxyacetophenone, as well as phenyl acetate and pentanol.

The process of making Ibuprofen consists of four relatively distinct operating steps: acylation, hydrogenation, carbonylation, and purification.

In the acylation process raw material are combined to form IBAP and also create co-products. The IBAP material is then reacted and filtered in the hydrogenation phase to form IBPE. In the carbonylation phase the IBPE is reacted to form crude Ibuprofen. The crude Ibuprofen is then crystallized, filtered and dried in the purification process for packaging.

FOPs at Site

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: O2005, O2007, O2013, O2015, O2017, O2413, O3269

Major Source Pollutants

The table below specifies the pollutants for which the site is a major source:

F.		
Major Pollutants	VOC, SO2, NOx, HAPs, CO	

Reading State of Texas' Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
 - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
 - Additional Monitoring Requirements
 - New Source Review Authorization Requirements
 - o Compliance Requirements
 - o Protection of Stratosphere Ozone
 - Permit Location
 - o Permit Shield (30 TAC § 122.148)
- Attachments
 - Applicable Requirements Summary

- Unit Summary
- Applicable Requirements Summary
- Additional Monitoring Requirements
- o Permit Shield
- o New Source Review Authorization References
- o Compliance Plan
- o Alternative Requirements
- Appendix A
 - o Acronym list

General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When

necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception- Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed either before or after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirement Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time specified in 30 TAC § 111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	No
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	Yes
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	No
CAIR (Clean Air Interstate Rule)	No

Basis for Applying Permit Shields

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the "Permit Shield" attachment of the permit.

Insignificant Activities

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.
- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

Determination of Applicable Requirements

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at

www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word "None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

Determination of Applicable Requirements

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**				
GRP-HEAT	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Heat Exchanger = Process pressure side > water pressure side by 5psi.	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.				
99V-8201	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.					
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.					
			Tank Description = Tank does not require emission controls					
			True Vapor Pressure = True vapor pressure is less than 1.0 psia					
			Product Stored = VOC other than crude oil or condensate					
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons					
99V-8201	40 CFR Part 60, Subpart Kb			60Kb-1	Product Stored = Volatile organic liquid			
		1 1	Storage Capacity = Capacity is greater than or equal to 19,800 gallons (75,000 liters) but less than 39,900 gallons (151,000 liters)					
			Maximum True Vapor Pressure = True vapor pressure is less than 2.2 psia					
99V-8301	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.					
	115, Storage of VOCs						Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Tank Description = Tank does not require emission controls					
			True Vapor Pressure = True vapor pressure is less than 1.0 psia					
			Product Stored = VOC other than crude oil or condensate					
			Storage Capacity = Capacity is greater than 40,000 gallons					
99V-8301	40 CFR Part 60,		Product Stored = Volatile organic liquid					
	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,000 liters)					
			Maximum True Vapor Pressure = True vapor pressure is less than 0.5 psia					
99V-8305	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.					
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.					
			Tank Description = Tank using a vapor recovery system (VRS)					
			True Vapor Pressure = True vapor pressure is less than 1.0 psia					
			Product Stored = VOC other than crude oil or condensate					
			Storage Capacity = Capacity is greater than 40,000 gallons					

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
99V-8305	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid	
	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 19,800 gallons (75,000 liters) but less than 39,900 gallons (151,000 liters)	
			Maximum True Vapor Pressure = True vapor pressure is less than 2.2 psia	
APV-2733	30 TAC Chapter 115, Storage of	115B-1	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
	VOCs		Tank Description = Tank using a vapor recovery system (VRS)	
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is greater than 40,000 gallons	
			Control Device Type = Flare	
APV-2733	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid	
	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,000 liters)	
			Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia	
			Storage Vessel Description = Closed vent system (CVS) with a flare used as the control device (fixed roof)	
APV-2747	40 CFR Part 60, Subpart Kb	60Kb-1	Product Stored = Stored product other than volatile organic liquid or petroleum liquid	
APV-2812	30 TAC Chapter 115, Storage of VOCs	115B-1	Today's Date = Today's date is March 1, 2013 or later.	
		compliance with applicable control requirer Tank Description = Tank does not require er True Vapor Pressure = True vapor pressure	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Tank Description = Tank does not require emission controls	
			True Vapor Pressure = True vapor pressure is less than 1.0 psia	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is greater than 40,000 gallons	
APV-2812	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid	
	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,000 liters)	
			Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia	
			Storage Vessel Description = Emission controls not required (fixed roof)	
APV-2814	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.	
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Tank Description = Tank using a vapor recovery system (VRS)	
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is greater than 40,000 gallons	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**				
APV-2814	40 CFR Part 60, Subpart Kb	60Kb-1	Product Stored = Volatile organic liquid Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,000 liters) Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia Storage Vessel Description = CVS and control device other than a flare (fixed roof)					
APV-2814	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Storage Tank - Emissions from storage tanks shall be controlled using a flare meeting the requirements of § 63.11(b).	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.				
GRP-	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.					
TANKS1	115, Storage of VOCs						Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Tank Description = Tank does not require emission controls					
			True Vapor Pressure = True vapor pressure is less than 1.0 psia					
			Product Stored = VOC other than crude oil or condensate					
			Storage Capacity = Capacity is greater than 40,000 gallons					
GRP-	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid					
TANKS1	Subpart Kb	oart Kb Storage C	Storage Capacity = Capacity is greater than or equal to 39,900 gallons (151,000 liters)					
			Maximum True Vapor Pressure = True vapor pressure is less than 0.5 psia					
GRP-	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.					
TANKS2	115, Storage of VOCs	Alternate Control Requirement = Not using an	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.					
				Tank Description = Tank using a vapor recovery system (VRS)				
					True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia			
			Product Stored = VOC other than crude oil or condensate					
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons					
			Control Device Type = Flare					
GRP-	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid					
TANKS2	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 10,600 gallons (40,000 liters) but less than 19,800 gallons (75,000 liters)					
GRP-	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.					
TANKS3	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.					
			Tank Description = Tank does not require emission controls					
			True Vapor Pressure = True vapor pressure is less than 1.0 psia					

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**			
			Product Stored = VOC other than crude oil or condensate				
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons				
GRP-	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid				
TANKS3	Subpart Kb		Storage Capacity = Capacity is less than 10,600 gallons (40,000 liters)				
GRP-	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.				
TANKS4	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.				
			Product Stored = Other than crude oil, condensate, or VOC				
GRP- TANKS4	40 CFR Part 60, Subpart Kb	60Kb-1	Product Stored = Stored product other than volatile organic liquid or petroleum liquid				
GRP-	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.				
TANKS5	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.				
			Product Stored = Other than crude oil, condensate, or VOC				
GRP- TANKS5	40 CFR Part 60, Subpart Kb	60Kb-1	Product Stored = Stored product other than volatile organic liquid or petroleum liquid				
GRP-	30 TAC Chapter 115, Storage of VOCs	115B-1	Today's Date = Today's date is March 1, 2013 or later.				
TANKS6			Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.				
			Tank Description = Tank using a vapor recovery system (VRS)				
		True Vapor Pressure = True vapor pressure is less than 1.0 psia	True Vapor Pressure = True vapor pressure is less than 1.0 psia				
				Product Stored = VOC other than crude oil or co	Product Stored = VOC other than crude oil or condensate		
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons				
GRP-	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid				
TANKS6	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 10,600 gallons (40,000 liters) but less than 19,800 gallons (75,000 liters)				
GRP-	30 TAC Chapter				115B-1	Today's Date = Today's date is March 1, 2013 or later.	
TANKS7	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.				
			Tank Description = Tank using a vapor recovery system (VRS)				
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia				
			Product Stored = VOC other than crude oil or condensate				
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons				
			Control Device Type = Flare				
GRP-	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid				
TANKS7	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 10,600 gallons (40,000 liters) but less than 19,800 gallons (75,000 liters)				

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
GRP- TANKS7	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Storage Tank - Emissions from storage tanks shall be controlled using a flare meeting the requirements of § 63.11(b).	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.
APHAC- LOAD	30 TAC Chapter 115, Loading and	115C-1	Chapter 115 Control Device Type = Control device other than a flare, vapor combustor, catalytic incinerator, direct flame incinerator, chiller, or carbon adsorption system.	
	Unloading of VOC		Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal.	
			Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.	
			Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.	
			Product Transferred = Volatile organic compounds other than liquefied petroleum gas, crude oil, condensate and gasoline.	
			Transfer Type = Only loading.	
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia.	
		Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(A) or 30 TAC § 115.217(b)(3)(A) exemption is not utilized.		
			Control Options = Vapor balance system.	
GRP-LOAD	30 TAC Chapter 115, Loading and	115, Loading and	Loading and facility or marine terminal.	
	Unloading of VOC	Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.	Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.	
			Product Transferred = Volatile organic compounds other than liquefied petroleum gas, crude oil, condensate and gasoline.	
			True Vapor Pressure = True vapor pressure is less than 1.5 psia.	
99MN-8900	30 TAC Chapter	111A-1	Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1.	
	111, Visible Emissions		Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions.	
			Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	
99MN-8900	40 CFR Part 60,	60A-1	Subject to 40 CFR § 60.18 = Flare is subject to 40 CFR § 60.18.	
	Subpart A	Adhering to Heat Content Specifications = Adhering to the heat content specifications in 40 CFR § 60.18(c)(3)(ii) an maximum tip velocity specifications in 40 CFR § 60.18(c)(4). Flare Assist Type = Steam-assisted	Adhering to Heat Content Specifications = Adhering to the heat content specifications in 40 CFR § 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40 CFR § 60.18(c)(4).	
			Flare Assist Type = Steam-assisted	
			Flare Exit Velocity = Flare exit velocity is less than 60 ft/s (18.3 m/sec)	
APT-510	30 TAC Chapter	111A-1	Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1.	
	111, Visible Emissions		Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions.	
			Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
APT-510	40 CFR Part 60,	60A-1	Subject to 40 CFR § 60.18 = Flare is subject to 40 CFR § 60.18.	
	Subpart A		Adhering to Heat Content Specifications = Adhering to the heat content specifications in 40 CFR § 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40 CFR § 60.18(c)(4).	
			Flare Assist Type = Non-assisted	
			Flare Exit Velocity = Flare exit velocity is less than 60 ft/s (18.3 m/sec)	
APTF-FUG	40 CFR Part 60,	60VV-1	Closed Vent (or Vapor Collection) Systems = The fugitive unit contains closed vent or vapor collection systems.	
	Subpart VV		Compressors = The fugitive unit does not contain compressors.	
			Enclosed Combustion Device = The fugitive unit does not contain enclosed combustion devices.	
			Flare = The fugitive unit does not contain flares.	
			Produces Chemicals = The fugitive unit is part of a facility that produces as an intermediate or final product one or more of the chemicals listed in 40 CFR § 60.489.	
			Pumps in Heavy Liquid Service = The fugitive unit does not contain pumps in heavy liquid service.	
			Sampling Connection Systems = The fugitive unit contains sampling connection systems.	
			Valves in Gas/Vapor or Light Liquid Service = The fugitive unit contains valves in gas/vapor or light liquid service.	
			Vapor Recovery System = The fugitive unit contains vapor recovery systems.	
			Affected Facility = The fugitive unit is part of a facility that is an affected facility as defined in 40 CFR § 60.480(a)(2).	
			Vacuum Service = The fugitive unit does not contain equipment in vacuum service.	
			Construction/Modification Date = After January 5, 1981 and on or before November 7, 2006.	
			Compliance Option = Choosing to comply with the provisions of 40 CFR Part 60, Subpart VV.	
		Complying with 40 CFR § 60.482-10 = No flares are complying with § 60.482-10. Complying with 40 CFR § 60.482-10 = Closed vent or vapor collection systems are complying with § 60.482-10.		
			Complying with 40 CFR § 60.482-5 = Sampling connection systems are complying with § 60.482-5.	
			Pumps in Light Liquid Service = The fugitive unit contains pumps in light liquid service.	
			Complying with 40 CFR § 60.482-7 = Valves in gas/vapor or light liquid service are complying with § 60.482-7.	
			Design Capacity = Site with a design capacity is greater than or equal to 1,000 Mg/yr.	
			Flanges and Other Connectors = The fugitive unit contains flanges and other connectors.	
			Open-ended Valves or Lines = The fugitive unit contains open-ended valves or lines.	
			Pressure Relief Devices in Gas/Vapor Service = The fugitive unit contains pressure relief devices in gas/vapor service.	
			Valves in Heavy Liquid Service = The fugitive unit does not contain valves in heavy liquid service.	
			Produces Heavy Liquid Chemicals = The facility produces chemicals other than or in addition to heavy liquid chemicals only from heavy liquid feed or raw materials.	
			Beverage Alcohol Production = The facility does not produce only beverage alcohol.	
			Complying with 40 CFR § 60.482-2 = Pumps in light liquid service are complying with § 60.482-2.	
			Complying with 40 CFR § 60.482-6 = Open-ended valves or lines are complying with § 60.482-6.	
			Complying with 40 CFR § 60.482-8 = Flanges and other connectors are complying with § 60.482-8.	
			Equipment in VOC Service = The facility contains equipment designed to operate in VOC service.	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
GRP- FUGITIVES	40 CFR Part 60,	60VV-1	Closed Vent (or Vapor Collection) Systems = The fugitive unit contains closed vent or vapor collection systems.	
	Subpart VV		Compressors = The fugitive unit does not contain compressors.	
			Enclosed Combustion Device = The fugitive unit does not contain enclosed combustion devices.	
			Flare = The fugitive unit contains flares.	
			Produces Chemicals = The fugitive unit is part of a facility that produces as an intermediate or final product one or more of the chemicals listed in 40 CFR § 60.489.	
			Pumps in Heavy Liquid Service = The fugitive unit does not contain pumps in heavy liquid service.	
			Sampling Connection Systems = The fugitive unit contains sampling connection systems.	
			Valves in Gas/Vapor or Light Liquid Service = The fugitive unit contains valves in gas/vapor or light liquid service.	
			Vapor Recovery System = The fugitive unit contains vapor recovery systems.	
			Affected Facility = The fugitive unit is part of a facility that is an affected facility as defined in 40 CFR § 60.480(a)(2).	
			Vacuum Service = The fugitive unit does not contain equipment in vacuum service.	
			Construction/Modification Date = After January 5, 1981 and on or before November 7, 2006.	
			Compliance Option = Choosing to comply with the provisions of 40 CFR Part 60, Subpart VV.	
			Complying with 40 CFR § 60.482-10 = Flares are complying with § 60.482-10.	
			Complying with 40 CFR § 60.482-5 = Sampling connection systems are complying with § 60.482-5.	
			Pumps in Light Liquid Service = The fugitive unit contains pumps in light liquid service.	
			Complying with 40 CFR § 60.482-7 = Valves in gas/vapor or light liquid service are complying with § 60.482-7.	
			Design Capacity = Site with a design capacity is greater than or equal to 1,000 Mg/yr.	
			Flanges and Other Connectors = The fugitive unit contains flanges and other connectors.	
			Open-ended Valves or Lines = The fugitive unit contains open-ended valves or lines.	
			Pressure Relief Devices in Gas/Vapor Service = The fugitive unit contains pressure relief devices in gas/vapor service.	
			Valves in Heavy Liquid Service = The fugitive unit does not contain valves in heavy liquid service.	
			Produces Heavy Liquid Chemicals = The facility produces chemicals other than or in addition to heavy liquid chemicals only from heavy liquid feed or raw materials.	
			Beverage Alcohol Production = The facility does not produce only beverage alcohol.	
			Complying with 40 CFR § 60.482-2 = Pumps in light liquid service are complying with § 60.482-2.	
			Complying with 40 CFR § 60.482-6 = Open-ended valves or lines are complying with § 60.482-6.	
			Complying with 40 CFR § 60.482-8 = Flanges and other connectors are complying with § 60.482-8.	
			Equipment in VOC Service = The facility contains equipment designed to operate in VOC service.	
GRP- VENTS1	30 TAC Chapter 115, Vent Gas	115B-1	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
	Controls		Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers, olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C and above).	
			Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
GRP-	30 TAC Chapter	115B-1	Alternate Control Requirement = Alternate control is not used.	
VENTS2	115, Vent Gas Controls		Control Device Type = Smokeless flare	
			Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers, olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C and above).	
GRP- VENTS2	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Process Vent - Emissions from process vents shall be controlled using a flare meeting the requirements of § 63.11(b).	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.
GRP- VENTS3	30 TAC Chapter 115, Vent Gas	115B-1	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
	Controls		Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ether olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C and above).	
			Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).	
GRP- VENTS3	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Process Vent - Emissions from process vents shall be controlled to an outlet concentration of 20 ppmv or less as TOC and 20 ppmv or less as hydrogen halides and halogens.	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.
GRP-	30 TAC Chapter	115B-1	Alternate Control Requirement = Alternate control is not used.	
VENTS4	115, Vent Gas Controls		Control Device Type = Smokeless flare	
			Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers, olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C and above).	
GRP- VENTS4	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Process Vent - Emissions from process vents shall be controlled to an outlet concentration of 20 ppmv or less as TOC and 20 ppmv or less as hydrogen halides and halogens.	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.
GRP- VENTS5	30 TAC Chapter 115, Vent Gas	115B-1	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
	Controls		Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers,	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
			olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C and above).	
			Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).	
GRP- VENTS5	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Process Vent - Emissions from process vents shall be controlled to an outlet concentration of 20 ppmv or less as TOC and 20 ppmv or less as hydrogen halides and halogens.	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.
GRP- VENTS6	30 TAC Chapter 115, Vent Gas	115B-1	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
	Controls		Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers, olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C and above).	
			Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).	
GRP- VENTS7	30 TAC Chapter 115, Vent Gas Controls	115B-1	Chapter 115 Division = The vent stream originates from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
GRP- VENTS8	30 TAC Chapter 115, Vent Gas	115B-1	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
	Controls	Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion is	Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers, olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C and above).	
			Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).	
GRP- VENTS8	40 CFR Part 63, Subpart GGG	63GGG-1	40 CFR 63 (MACT) Subpart GGG Storage Tank - Emissions from storage tanks shall be controlled using a flare meeting the requirements of § 63.11(b).	The citations for this rule were determined from the basis of determination provided (i.e. the unit attributes that the applicant should provide when no form exists) and an analysis of the rule text.
99T-8402	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.	
			Total Resource Effectiveness = TRE index value less than 8.0 not from a halogenated vent stream.	
			Construction/Modification Date = After December 30, 1983.	
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.	
			Distillation Unit Type = Does not qualify for any exemption under § 60.660(c)(1)-(3).	
			Total Design Capacity = Less than 1 gigagram per year.	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**	
GRP- DISTILL	40 CFR Part 60, Subpart NNN	60NNN-1	Subpart NNN Chemicals = The distillation unit produces any chemical listed in 40 CFR § 60.667 as a product, co-product, by-product, or intermediate.		
			Total Resource Effectiveness = TRE index value less than 8.0 not from a halogenated vent stream.		
			Construction/Modification Date = After December 30, 1983.		
			TOC Reduction = Compliance is achieved by reducing total organic compound emissions (less methane and ethane) by 98 weight-percent or to a concentration of 20 ppmv dry basis corrected to 3 percent oxygen using a VOC emissions non-flare combustion control device.		
			Subpart NNN Control Device = Flare.		
			Vent Type = A single distillation unit discharging vent stream into a vapor recovery system.		
			Distillation Unit Type = Does not qualify for any exemption under § 60.660(c)(1)-(3).		
			Total Design Capacity = 1 gigagram per year or greater.		
			Vent Stream Flow Rate = Flow rate greater than or equal to 0.008 scm/min.		
99IBU-UNIT	30 TAC Chapter 115, Phar. Man.	115F-1	Alternate Control Requirement = No alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria has been approved by the TCEQ Executive Director.		
	Facilities	Facilities		Uncontrolled VOC Emissions = The facility emits an uncontrolled combined weight of VOC less than 550 pounds (249.5 kilograms) in all continuous 24-hour periods.	
GRP- REACTORS1	40 CFR Part 60, Subpart III	60III-1	Construction/Modification Date = On or before October 21, 1983.		
GRP- REACTORS1	40 CFR Part 60, Subpart RRR	60RRR-1	Chemicals Listed in 40 CFR § 60.707 = The affected facility is part of a process unit that produces chemicals listed in 40 CFR § 60.707 as a product, co-product, by product, or intermediate.		
			Construction/Modification Date = On or before June 29, 1990.		
GRP- REACTORS2	40 CFR Part 60, Subpart III	60III-1	Affected Facility = Facility is not subject to 40 CFR Part 60, Subpart III.		
GRP- REACTORS2	40 CFR Part 60, Subpart RRR	60RRR-1	Chemicals Listed in 40 CFR § 60.707 = The affected facility is not part of a process unit that produces chemicals listed in 40 CFR § 60.707 as a product, co-product, by product, or intermediate.		

^{* -} The "unit attributes" or operating conditions that determine what requirements apply
** - Notes changes made to the automated results from the DSS, and a brief explanation why

NSR versus Title V FOP

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit(FOP)
Issued Prior to new Construction or modification	For initial permit with application shield, can be issued
of an existing facility	after operation commences; significant revisions require
	approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not
	authorize new emissions
Ensures issued permits are protective of the	Applicable requirements listed in permit are used by the
environment and human health by conducting a	inspectors to ensure proper operation of the site as
health effects review and that requirement for	authorized. Ensures that adequate monitoring is in
best available control technology (BACT) is	place to allow compliance determination with the FOP.
implemented.	
Up to two Public notices may be required.	One public notice required. Opportunity for public
Opportunity for public comment and contested	comments. No contested case hearings.
case hearings for some authorizations.	
Applies to all point source emissions in the state.	Applies to all major sources and some non-major sources
	identified by the EPA.
Applies to facilities: a portion of site or individual	One or multiple FOPs cover the entire site (consists of
emission sources	multiple facilities)
Permits include terms and conditions under	Permits include terms and conditions that specify the
which the applicant must construct and operate	general operational requirements of the site; and also
its various equipment and processes on a facility	include codification of all applicable requirements for
basis.	emission units at the site.
Opportunity for EPA review for Federal	Opportunity for EPA review, Affected states review, and
Prevention of Significant Deterioration (PSD)	a Public petition period for every FOP.
and Nonattainment (NA) permits for major	
sources.	
Permits have a table listing maximum emission	Permit has an applicable requirements table and
limits for pollutants	Periodic Monitoring (PM) / Compliance Assurance
	Monitoring (CAM) tables which document applicable
	monitoring requirements.
Permits can be altered or amended upon	Permits can be revised through several revision
application by company. Permits must be issued	processes, which provide for different levels of public
before construction or modification of facilities	notice and opportunity to comment. Changes that would
can begin.	be significant revisions require that a revised permit be
1200	issued before those changes can be operated.
NSR permits are issued independent of FOP	FOP are independent of NSR permits, but contain a list
requirements.	of all NSR permits incorporated by reference

New Source Review Requirements

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html

Outdated Standard Exemption lists may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html

The status of air permits and applications and a link to the Air Permits Remote Document Server is located at the following Web site:

www.tceq.texas.gov/permitting/air/nav/air_status_permits.html

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.		
Authorization No.: 17276	Issuance Date: 01/04/2013	
Authorization No.: 19997	Issuance Date: 05/25/2007	
Authorization No.: 83827	ion No.: 83827 Issuance Date: 03/19/2012	
Permits By Rule (30 TAC Chapter 106) for the Application Area		
Number: 106.261	Version No./Date: 09/04/2000	
Number: 106.261	Version No./Date: 11/01/2003	
Number: 106.262	umber: 106.262 Version No./Date: 09/04/2000	
Number: 106.262	Version No./Date: 11/01/2003	
Number: 106.478	Version No./Date: 09/04/2000	

Emission Units and Emission Points

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission

Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

Monitoring Sufficiency

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

Periodic Monitoring:

The Federal Clean Air Act requires that each federal operating permit include monitoring sufficient to assure compliance with the terms and conditions of the permit. Most of the emission limits and standards applicable to emission units at Title V sources include adequate monitoring to show that the units meet the limits and standards. For those requirements that do not include monitoring, or where the monitoring is not sufficient to assure compliance, the federal operating permit must include such monitoring for the emission units affected. The following emission units are subject to periodic monitoring requirements because the emission units are subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement that does not already require monitoring, or the monitoring for the applicable requirement is not sufficient to assure compliance:

Unit/Group/Process Information		
ID No.: APV-2733		
Control Device ID No.: APT-510	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: 115B-1	
Pollutant: VOC	Main Standard: § 115.112(b)(1)	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Once per hour		
Averaging Period: n/a		
Deviation Limit: Absence of pilot flame.		
Basis of monitoring:		

It is widely practiced and accepted to monitor the flare pilot flame by closed circuit cameras, thermocouples and visual inspection. The presence of the pilot flame demonstrates that VOC emissions are combusted. Monitoring the presence of a pilot flame is required in many federal rules, including: 40 CFR Part 60, Subparts K, III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; and 40 CFR Part 63, Subparts G, R, W, DD, and HH.

Unit/Group/Process Information		
ID No.: APV-2733		
Control Device ID No.: CVS	Control Device Type: Vapor Collection System	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-1	
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)	
Monitoring Information		
Indicator: VOC Concentration		
Minimum Frequency: Once per year		
Averaging Period: n/a		
Deviation Limit: The closed vent system shall indicated by an instrument reading of less tha	be designed to operate with no detectable emissions as n 500 ppm above background.	
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Basis of monitoring:

It is widely practiced and accepted to monitor the VOC concentration at the outlet of a control device by use of a portable analyzer with procedures such as EPA Test Method 25A or a VOC CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. Outlet VOC concentration has been used as an indicator of VOC emissions in many federal rules including 40 CFR Part 60, Subpart III, 40 CFR Part 60, Subpart NNN, 40 CFR Part 60, Subpart RRR, 40 CFR Part 61, Subpart BB, 40 CFR Part 61, Subpart FF, 40 CFR Part 63, Subpart R, 40 CFR Part 63, Subpart DD, and 40 CFR Part 63, Subpart HH.

Unit/Group/Process Information		
ID No.: APV-2733		
Control Device ID No.: CVS	Control Device Type: Vapor Collection System	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-1	
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)	
Monitoring Information		
Indicator: Visual Inspection		
Minimum Frequency: Once per year		
Averaging Period: n/a		
Deviation Limit: It shall be a deviation if defects found are not repaired.		

Basis of monitoring:

It is widely practiced and accepted to use work practice as a monitoring option to demonstrate compliance. Preventive maintenance and visual inspections of control equipment, as recommended by the manufacturer, conducted by the owner or operator can ensure that the unit is operating properly. The work practice requirements prescribe that preventive maintenance and/or visual inspections be performed and a recorded in a log. This option assures that the owner or operator is adequately maintaining the control equipment.

Unit/Group/Process Information		
ID No.: APV-2814		
Control Device ID No.: N/A	Control Device Type: Absorber (Direct Absorption)	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-1	
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)	
Monitoring Information		
Indicator: Outlet Gas Temperature		
Minimum Frequency: once per week		
Averaging Period: n/a*		
Deviation Limit: The maximum outlet gas temp	perature shall not exceed 150 degrees F.	
Basis of monitoring: The ention to monitor outlet gas temperature as	on indicate the amount of VOC from the gas stream that can	

The option to monitor outlet gas temperature can indicate the amount of VOC from the gas stream that can be absorbed by the scrubbing liquid. As the temperature increases, the vapor pressure and energy level of the gas stream increases, raising the energy level of the absorbed molecules. At higher energy levels the absorbed molecules may have sufficient energy to overcome the attraction of the absorbing liquid. Therefore, absorbing liquids capture more air contaminants at low temperatures. Temperature is a good indicator of proper operation of the absorber.

^{*}The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Unit/Group/Process Information		
ID No.: APV-2814		
Control Device ID No.: N/A	Control Device Type: Absorber (Direct Absorption)	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-1	
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)	
Monitoring Information		
Indicator: Liquid Supply Pressure		
Minimum Frequency: once per week		
Averaging Period: n/a*		
Deviation Limit: The minimum liquid supply pressure shall not be below 30 psig.		
Basis of monitoring: The option to monitor the liquid flow rate, liquid supply pressure, and the liquid flow rate and gas flow rate are provided as monitoring options because monitoring these parameters can indicate malfunctions in the liquid pumping equipment, blockage of pipes or spray nozzles.		

Unit/Group/Process Information		
ID No.: APV-2814		
Control Device ID No.: CVS	Control Device Type: Vapor Collection System	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-1	
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)	
Monitoring Information		
Indicator: VOC Concentration		
Minimum Frequency: Once per year		
Averaging Period: n/a		
Deviation Limit: The closed vent system shall be operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background.		

Basis of monitoring:

It is widely practiced and accepted to monitor the VOC concentration at the outlet of a control device by use of a portable analyzer with procedures such as EPA Test Method 25A or a VOC CEMS. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. Outlet VOC concentration has been used as an indicator of VOC emissions in many federal rules including 40 CFR Part 60, Subpart III, 40 CFR Part 60, Subpart NNN, 40 CFR Part 60, Subpart RRR, 40 CFR Part 61, Subpart BB, 40 CFR Part 61, Subpart FF, 40 CFR Part 63, Subpart R, 40 CFR Part 63, Subpart BH.

Unit/Group/Process Information	
ID No.: APV-2814	
Control Device ID No.: CVS	Control Device Type: Vapor Collection System
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-1
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: n/a	
Deviation Limit: It shall be a deviation if any de	efects found are not repaired.
	practice as a monitoring option to demonstrate compliance of control equipment, as recommended by the manufacture

conducted by the owner or operator can ensure that the unit is operating properly. The work practice

requirements prescribe that preventive maintenance and/or visual inspections be performed and a recorded in a log. This option assures that the owner or operator is adequately maintaining the control equipment.

Unit/Group/Process Information		
ID No.: GRP-TANKS2		
Control Device ID No.: N/A	Control Device Type: N/A	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: 115B-1	
Pollutant: VOC	Main Standard: § 115.112(b)(1)	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Once per hour		
Averaging Period: n/a		
Deviation Limit: Absence of pilot flame		
Basis of monitoring: It is widely practiced and accepted to monitor the flare pilot flame by closed circuit cameras, thermocouples		

and visual inspection. The presence of the pilot flame demonstrates that VOC emissions are combusted. Monitoring the presence of a pilot flame is required in many federal rules, including: 40 CFR Part 60,

R, W, DD, and HH.

R, W, DD, and HH.

Subparts K, III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; and 40 CFR Part 63, Subparts G,

Unit/Group/Process Information		
ID No.: GRP-TANKS7		
Control Device ID No.: 99MN8900	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: 115B-1	
Pollutant: VOC	Main Standard: § 115.112(b)(1)	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Once per hour		
Averaging Period: n/a		
Deviation Limit: Absence of pilot flame		
Basis of monitoring: It is widely practiced and accepted to monitor the flare pilot flame by closed circuit cameras, thermocouples		

and visual inspection. The presence of the pilot flame demonstrates that VOC emissions are combusted. Monitoring the presence of a pilot flame is required in many federal rules, including: 40 CFR Part 60,

Subparts K, III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; and 40 CFR Part 63, Subparts G,

Unit/Group/Process Information		
ID No.: GRP-VENTS2		
Control Device ID No.: 99MN-8900	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115B-1	
Pollutant: VOC	Main Standard: § 115.121(b)	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Once per hour		
Averaging Period: n/a		
Deviation Limit: Absence of pilot flame.		
Basis of monitoring: It is widely practiced and accepted to monitor the flare pilot flame by closed circuit cameras, thermocouples		

and visual inspection. The presence of the pilot flame demonstrates that VOC emissions are combusted. Monitoring the presence of a pilot flame is required in many federal rules, including: 40 CFR Part 60,

R, W, DD, and HH.

R, W, DD, and HH.

Subparts K, III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; and 40 CFR Part 63, Subparts G,

Unit/Group/Process Information		
ID No.: GRP-VENTS4		
Control Device ID No.: APT-510	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115B-1	
Pollutant: VOC	Main Standard: § 115.121(b)	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Once per hour		
Averaging Period: n/a		
Deviation Limit: Absence of pilot flame.		
Basis of monitoring:		

It is widely practiced and accepted to monitor the flare pilot flame by closed circuit cameras, thermocouples and visual inspection. The presence of the pilot flame demonstrates that VOC emissions are combusted. Monitoring the presence of a pilot flame is required in many federal rules, including: 40 CFR Part 60,

Subparts K, III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; and 40 CFR Part 63, Subparts G,

Comphance Review
1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on 08/20/2015.
Site rating: <u>0.00 / High</u> Company rating: <u>0.00 / High</u>
(High < 0.10 ; Satisfactory ≥ 0.10 and ≤ 55 ; Unsatisfactory > 55)
2. Has the permit changed on the basis of the compliance history or site/company rating?
Site/Permit Area Compliance Status Review
1. Were there any out-of-compliance units listed on Form OP-ACPS?No
2. Is a compliance plan and schedule included in the permit?
Available Unit Attribute Forms
OP-UA1 - Miscellaneous and Generic Unit Attributes
OP-UA2 - Stationary Reciprocating Internal Combustion Engine Attributes
OP-UA3 - Storage Tank/Vessel Attributes
OP-UA4 - Loading/Unloading Operations Attributes
OP-UA5 - Process Heater/Furnace Attributes
OP-UA6 - Boiler/Steam Generator/Steam Generating Unit Attributes
OP-UA7 - Flare Attributes
OP-UA8 - Coal Preparation Plant Attributes
OP-UA9 - Nonmetallic Mineral Process Plant Attributes
OP-UA10 - Gas Sweetening/Sulfur Recovery Unit Attributes
OP-UA11 - Stationary Turbine Attributes
OP-UA12 - Fugitive Emission Unit Attributes
OP-UA13 - Industrial Process Cooling Tower Attributes
OP-UA14 - Water Separator Attributes
OP-UA15 - Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes
OP-UA16 - Solvent Degreasing Machine Attributes
OP-UA17 - Distillation Unit Attributes
OP-UA18 - Surface Coating Operations Attributes
OP-UA19 - Wastewater Unit Attributes
OP-UA20 - Asphalt Operations Attributes
OP-UA21 - Grain Elevator Attributes
OP-UA22 - Printing Attributes
OP-UA24 - Wool Fiberglass Insulation Manufacturing Plant Attributes
OP-UA25 - Synthetic Fiber Production Attributes
OP-UA26 - Electroplating and Anodizing Unit Attributes
OP-UA27 - Nitric Acid Manufacturing Attributes
OP-UA28 - Polymer Manufacturing Attributes
OP-UA29 - Glass Manufacturing Unit Attributes OP UA29 - Wroth Sode Sulfite and Stand Alone Somichamical Pulp Will Attributes
OP-UA30 - Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes OP-UA31 - Lead Smelting Attributes
OP-UA32 - Copper and Zinc Smelting/Brass and Bronze Production Attributes
OP-UA33 - Metallic Mineral Processing Plant Attributes
OP-UA34 - Pharmaceutical Manufacturing
OP-UA35 - Incinerator Attributes
OP-UA36 - Steel Plant Unit Attributes
OP-UA37 - Basic Oxygen Process Furnace Unit Attributes
OP-UA38 - Lead-Acid Battery Manufacturing Plant Attributes
OP-UA39 - Sterilization Source Attributes
OP-UA40 - Ferroalloy Production Facility Attributes
OP-UA41 - Dry Cleaning Facility Attributes
OP-UA42 - Phosphate Fertilizer Manufacturing Attributes
OP-UA43 - Sulfuric Acid Production Attributes

- OP-UA44 Municipal Solid Waste Landfill/Waste Disposal Site Attributes
- OP-UA45 Surface Impoundment Attributes
- OP-UA46 Epoxy Resins and Non-Nylon Polyamides Production Attributes
- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
- OP-UA51 Dryer/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes
- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- OP-UA55 Transfer System Attributes
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/Depainting Operation Attributes
- **OP-UA58 Treatment Process Attributes**
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes